

ABSTRACT OF THE DISCLOSURE

Systems and techniques support color management of an image with a parameterized image color space. In general, in one implementation, a color profile that conforms to a defined color profile architecture and that defines a multistage color space transform is generated. The image includes a parameterized encoding of an image color space with image parameters defining a range and an offset of an image component of the image, and a white point of the image color space. Generation of the color profile involves affecting two or more stages of the multistage transform based on the image parameters. Image processing precision can be increased by fitting output to input data scopes between two or more stages. The image parameters of the parameterized encoding can define ranges, offsets, and bit depths of image components of the image, and the color profile can be a bit-depth independent color profile.

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